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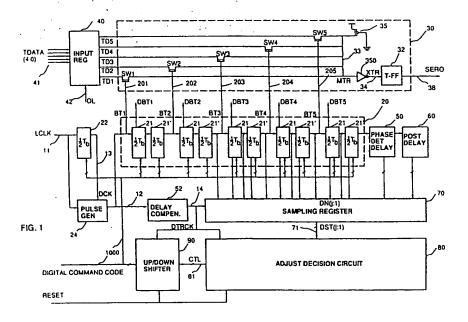
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- (54) Digital serializer and time delay regulator.
- (57) A method and apparatus for providing a digitally self calibrating delay element by launching a pulse of 1/2 Tb into a delay line and by determining the position at any instant of said pulse in the delay line

and by digitally adjusting the delay of said delay line, and a digital serializer with switches clocked by these pulses.





EUROPEAN SEARCH REPORT

Application Number EP 93 30 4079

ategory	Citation of document with of relevant p	indication, where appropriate, assages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL5)
A	DE-A-38 43 261 (AN * column 1, line 18 * column 2, line 3 * column 3, line 2	1-6,8-12	H04J3/04 H04L7/033 H04L25/38	
X	US-A-4 763 327 (JOHN M. FONTAINE) * column 1, line 61 - column 2, line 3 * * column 3, line 38 - line 46 * * column 4, line 40 - line 65 *		6	
\	EP-A-O 146 236 (SPERRY CORPORATION) * abstract * * figure 1 *		7	
	WO-A-89 09520 (BELL TELEPHONE MANUFACTURING COMPANY) * page 1, line 2 - line 9 * * page 3, line 17 - page 4, line 35 *		1,10	
Α .	EP-A-O 384 918 (SIEMENS AKTIENGESELLSCHAFT)		1	TECHNICAL FIELDS
,	* page 1. line 24 -	- line 40 *		SEARCHED (Int.Cl.5)
	* page 2, line 15 -	- page 4, line 14 * 		H04J H04L
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	The present search report has b	een drawn up for all claims		
	Place of search	Date of completion of the search	·	Examiner
	THE HAGUE	3 February 199	Van	den Berg, J
X : part Y : part docu	CATEGORY OF CITED DOCUME icularly relevant if taken alone icularly relevant if combined with anoment of the same category nological background	E : earlier pater after the fili other D : document c L : document ci	inciple underlying the nt document, but publi- ing date ited in the application ted for other reasons	shed on, or



C	LAIMS INCURRING FEES
The pres	ent European patent application comprised at the time of filling more than ten claims.
	All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
	Only part of the claims fees have been paid within the prescribed time limit. The present European search
L	report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.
	namely claims:
	No claims fees have been paid within the prescribed time limit. The present European search report has been
	drawn up for the first ten claims.
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	ACK OF UNITY OF INVENTION
	ch Division considers that the present European patent application does not comply with the requirement of unity of
	and relates to several inventions or groups of inventions.
namely:	
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	Same of the same o
X	All further search lees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
	Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invertions in respect of which search fees have been paid.
	namely claims:
	None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
	namely claims:



European Patent Office

EP 93 30 4079 -B-

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

1. Claims 1-5,10-12: Calibration of a delay line

2. Claims 6-9 : Digital data serializer

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